SoloStorm User Guide

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Prerequisites

Install an SD Memory Card

It is highly suggested that you install extra memory on your Android device to ensure you have enough memory to cover your datalogging needs prior to installing and using SoloStorm.

Data logging is storage intensive, particularly if you are recording video with your device. Processing video is greatly optimized by making use of a high-quality, Class 10 flash memory card from a reputable manufacturer, as it will support higher read and write speeds than a generic version. A 16GB or 32GB card is recommended.

Please refer to the user manual for your Android device to determine how to install the external memory card. Configuring SoloStorm to make use of the added memory will be covered in a later step.

Pair Bluetooth Devices

Please follow the documentation that comes with your Android device in order to it with Bluetooth GPS and OBD-II modules prior to installing SoloStorm. While most devices will allow you to pair Bluetooth devices on the fly, doing so before starting the application will ensure a trouble-free configuration process.

When pairing Blutooth devices, a PIN code is usually required. If the instructions for the Bluetooth module do not specify a PIN, try '1234' or '0000'. Qstarz GPS units use '1234'.

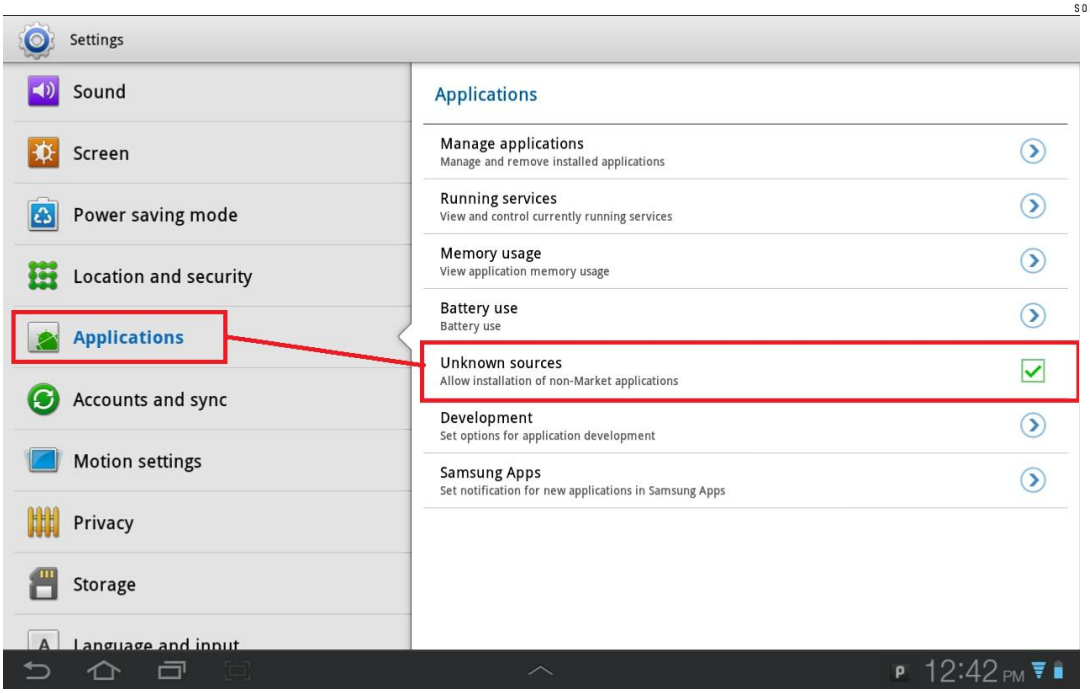
Please note that Android devices prior to v2.3 (Gingerbread) do not support simultaneous operation of Bluetooth devices. If you are running Android v2.2, then upgrade your operating system if possible. If not, then you can not use both an external GPS and an OBD-II reader.

Selecting your GPS and OBD-II devices will be covered in a later step.

Allow non-market applications

SoloStorm is not an application sourced through the Google Market. By default your device is set to **NOT** allow this type of application. This setting needs to be changed for you to install SoloStorm on your Android device.

1. Open the ***Settings*** → ***Applications*** menu on your Android device.
2. Ensure that the option for ***Unknown Sources*** is **CHECKED.**



Install SoloStorm

Install the SoloStorm .apk file

After ordering SoloStorm, you will be prompted to download the SoloStorm application .apk file. You will also receive an email containing an unlock code to enable SoloStorm's logging functionality.

If you are downloading the .apk file directly to your device, you may be prompted to install it (this depends on your device, as some do not recognize downloaded applications).

If you have downloaded the .apk file to a PC, email it to the gmail account that you have registered on your device. On most Android devices, the Gmail application will recognize the .apk file and allow you to install directly from your e-mail. There will be an "Install" button next to the attachment, tap it to start the install process.

Tip: If you are having trouble installing SoloStorm and receive a message similar to 'error parsing package', then you must download and install the free ApKatcher application from Google Play (formerly the Android Marketplace). This will allow your device to recognize downloaded .apk files. You can read more at https://play.google.com/store/apps/details?id=nEx.software.Apps.APKatcher&hl=en

During installation, you will be prompted to grant a number of permissions to SoloStorm. SoloStorm requires access to many features on the Android device, so this list of permissions is quite long.

Unlock SoloStorm

SoloStorm does not require a license in order to open and analyze logs, however one is required in order to log data and record video.

You may unlock SoloStorm on as many devices as you wish, so long as the email address associated with your license and unlock code is registered on the device. **Note that some email clients do not**

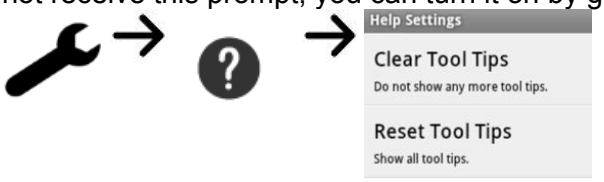
register the email address with the device and only store it in private memory. In order to be safe, it is best to use a Gmail address, which is registered globally on the device.

Perform these steps on the Android device you wish to install on.

1. Open the e-mail containing the unlock code.
2. Highlight and copy the unlock code or write it down.
3. Open SoloStorm
4. Tap the Logger Off box to start the licensing process

Quick Start Guide - Basic Settings

SoloStorm now has a first-time help feature that will guide you through basic first time setup. If you do not receive this prompt, you can turn it on by going to ***Reset Tool Tips:***



Settings **Help**

Select Bluetooth Devices

This section describes how to enable Bluetooth devices for logging.

NOTE: Your Bluetooth devices should be already paired with your Android device, please refer to your respective user manuals to complete this.

Bluetooth GPS

NOTE: it is best to have Bluetooth already turned on and your GPS bluetooth device must be already paired

1. From the main screen, tap ***Bluetooth***

Settings **GPS**

2. If prompted, tap ***Yes*** to allow Bluetooth to be turned on.
3. You will be given a list of all available Bluetooth devices. Tap on your Bluetooth GPS device name and address to use it with SoloStorm.
4. Touch ***Back*** to exit once your device is set.

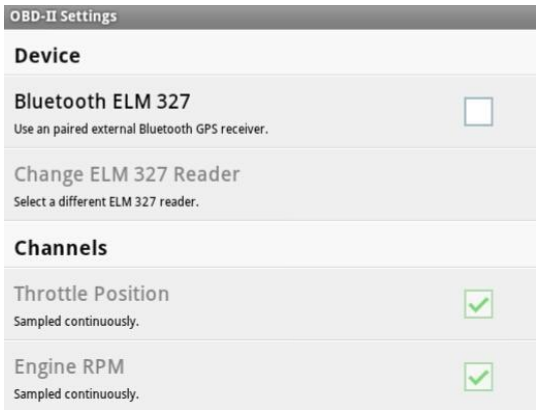
Bluetooth OBDII

1. From the main screen, tap ***Bluetooth ELM 327***

Settings **OBD-II**

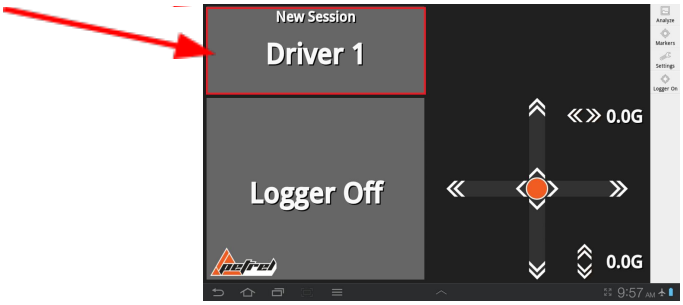
2. If prompted, tap ***Yes*** to allow Bluetooth to be turned on on your device.

3. You will be given a list of all available Bluetooth devices. Tap on your Bluetooth GPS device name and address to use it with SoloStorm.



Set Event and Driver Name

This function allows you to organize your data according to sessions and drivers.
Tap the ***Driver Info*** box on the main screen to enter Driver/Session data.

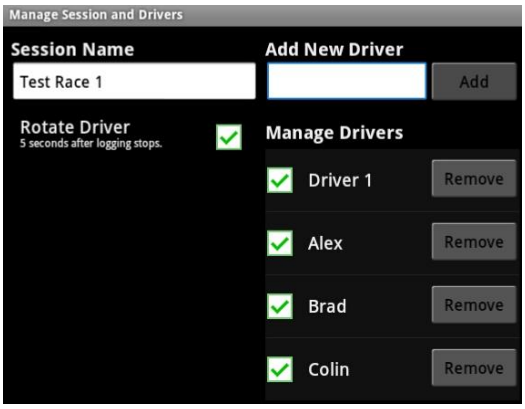


Set session name

Type the name of the current race, event or session name you want to record the data under in the ***Session Name*** box.
This name will be used for all drivers until you change it. Session names must contain only Alphanumeric characters.

Set driver names

Type a driver name in the ***Add New Driver*** box, touch the ***Add*** button once completed. The new driver name will appear in the list below.



Each driver has a checkbox next to their name indicating whether the Driver is selectable from the main screen. Drivers that are not checked will not be rotated through or appear on the driver selection list in the main logging screen. This is useful to set up the list of drivers for the day.

Select Driver

Once driver names have been entered, you can select drivers by:

- Tapping the left/right arrows on either side of the driver name
- LONG the driver box to bring up a selection list

Calibrate Accelerometer

- Calibrate the accelerometer on your device in order for the G-meter to record properly

  NOTE: you will need to mount/orient your device in the position you intend to record your runs in and need space to drive forward incuding recordable g-forces.

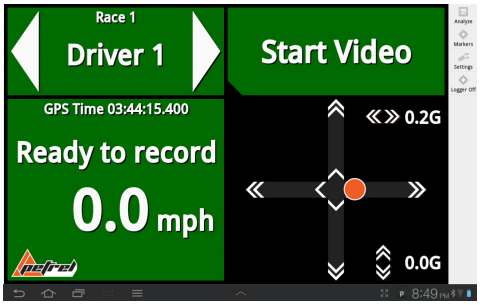
  - **LONG TAP** on the G-meter
  - Tap **Calibrate Accelerometer**
  - Follow the instructions/prompts on screen:
    - Tap **Proceed**, you will have 5 seconds to mount/orient your device
    - Drive forward inducing recordable g-forces, then stop
    - Press **Finished**

Start Logging

- To start logging, tap the

box
  - If you have not activated SoloStorm yet, you will be prompted to enter your unlock code. Enter the unlock code that you received by e-mail. Case is not important, but do include the hyphen.
    Note: *You need to have a connection to the Internet to unlock SoloStorm*
  - You will receive a confirmation message once your copy of SoloStorm has been unlocked.
- SoloStorm screens will show blue while awaiting a GPS lock

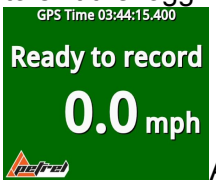
- Once SoloStorm is ready to record, the Info Panels will turn green, you can launch at anytime



- Tap the Start Video box in order to record video if your device is mounted accordingly

  FYI: A **LOWER** GPS accuracy number is **BETTER** (less than 1 is best)
- Run Recording
  - **Start**: SoloStorm will automatically start logging once the Start Trigger conditions are met (default: drive over 20mph for more than 1 second. SoloStorm records data before this trigger is met so your entire run is recorded)
  - **Stop**: SoloStorm will automatically stop logging once the Stop Trigger conditions are met (default: drive less than 10mph for more than 2 seconds)

  Trigger settings are covered in Advanced Settings | Trigger Settings
- **STOP** LOGGING: to exit the logging mode, press the main recording box



Analyzing your Run (Basics)

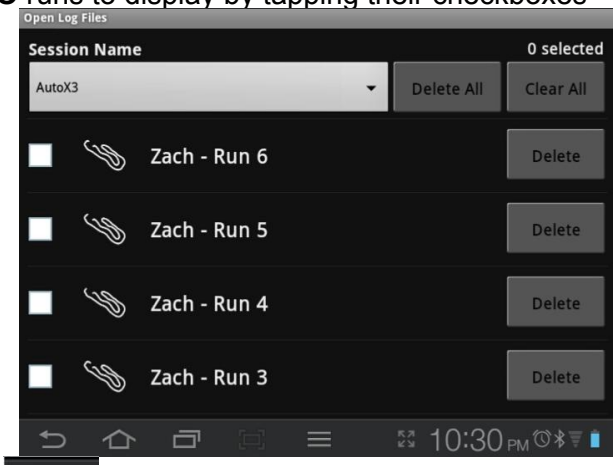
Run Analysis

Tap to enter the run analysis mode from the Main Screen.

Analyze

Load a run log

1. If you have not previously loaded a log, you will be prompted to select a recorded log to display, otherwise tap the button to select run logs
   Logs
2. Select the Event by tapping the ***Session Name*** field
3. Select up to **TWO** runs to display by tapping their checkboxes



4. Tap the Android button to return to the Analysis screen
5. Your runs will now be loaded

Run Navigation/Playback

- **Normal playback**: To play your run back at normal speed, tap the button
- **Manual playback**: Tap and drag the timeline at the bottom to manually replay the log at manual speed.

- **Return to log beginning**: LONG TAP the to reset all runs to the beginning

- **Zoom**: You can enlarge the playback map by 2 finger pinch/spread motions directly on the run map, your position cursors will move to stay within the viewable area

- **Run Alignment**: you can line up two runs to the same position anywhere on the track by:

  - **LONG TAP** the DASH of the run you want to align to
  - **DOUBLE TAP** the position cursor of the run you want to align to

- **Individual Run movement**: You can disable the movement of a run by tapping on the Dash of the run you wish to stop moving. The Dash will darken to show it's been disabled, tap again to reactivate the run.

Disabled **Enabled**

-

Widgets allow you to customize the Analysis mode display, these will be covered in more detail later on

In-App Help

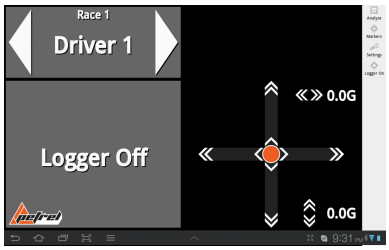
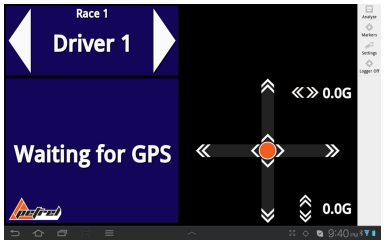
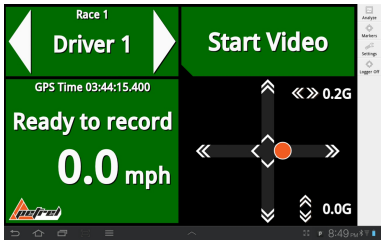
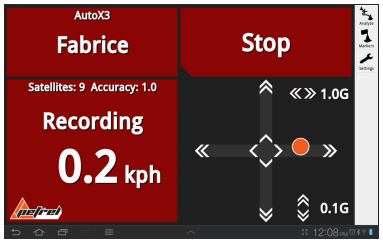
You can activate a quick reference guide that points out the above quick setup information by going to **Reset Tool Tips**:

Settings **Help**

Advanced Settings/Instructions

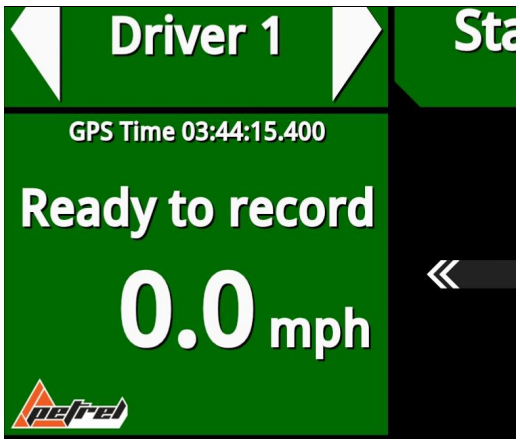
Main / Logging Screen

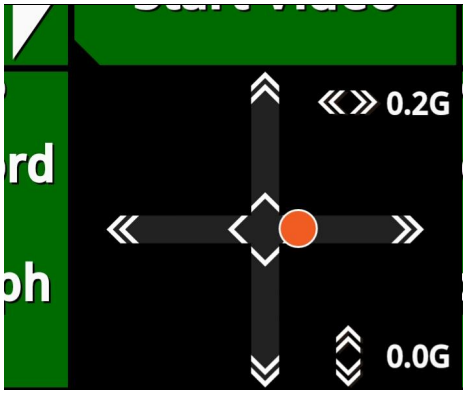
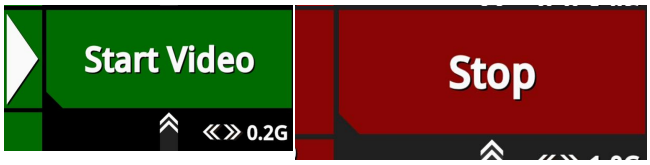
The logging screen has a number of states:

Logger Off You can modify application settings and analyze logs.	
Waiting for GPS Logging activation requested, SoloStorm is attempting to connect to your GPS device.	
Logger Ready SoloStorm has been configured and GPS telemetry is being received - not recorded	
Logging SoloStorm has detected Start Trigger and is logging current telemetry	

Main Screen Widgets

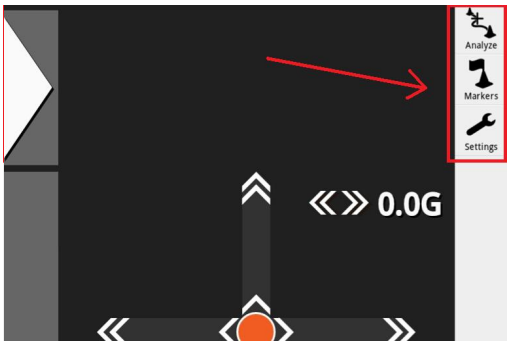
These are all functions performed while the Logger is **OFF.**

Session/Driver Widget This widget displays the names of the **current Session** and the **current Driver**. **Single Tap** the box - enter Session and Driver settings, as well as set driver auto-rotation after run logged **Tap arrows** - to rotate through driver list **Long Tap** - bring up driver list for quick selection	
Logger Status Widget **Single Tap** - to get the logger ready for manual/auto triggers When connected, this widget displays the GPS time and accuracy numbers from the GPS telemetry, along with the current vehicle speed and altitude (if using the Hill Climb race mode). **GPS Accuracy**: *<u>LOWER</u> is BETTER* When logging, this widget displays the number of data points that were logged, as well as the current update rate. **Single Tap -** to exit Logging mode OBD2 connection status and update rate are also displayed.	

Accelerometer + OBD2 Telemetry Widget Displays the current 2D lateral and longitudinal acceleration values, as well as the current values for the selected OBD2 channels. **Long Tap** - To bring up accelerometer settings (TAP the Calibrate Accelerometer button. Read and follow the instructions that appear.) You can set the maximum Lateral/Linear G ranges to display. Press to exit when complete	
Manual Start/Stop & Start/Stop Video Button This button changes depending on your SoloStorm settings. ***Manual Start/Stop Trigger*** If SoloStorm is set to Manual Trigger then this button will manually Start and Stop data (and video) logging. ***Auto Start/Stop Trigger*** If SoloStorm is set to ,Auto Trigger then this button will Start and Stop **Video** Recording **ONLY**, data logging will start as set by the Trigger settings (Video can be set to auto-start when staged, see Markers). It is recommended to leave Start/Stop Triggers on Auto.	

Main Screen Menu Buttons

The Main Menu is on the right edge of your Main Screen



The Main Menu has 3 options

Analyze	**Markers**	**Settings**
Starts the Analysis module to review logged data	Sets markers that assist with auto-triggers and run analysis	SoloStorm Settings Menu

Analyze

Refer to the Run Analysis section of the Quick Reference Guide for basic navigation in the Analyze module.

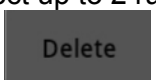
Analysis Menu

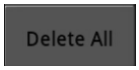
The Analysis module has 2 menu options:

Logs	Log management section: - Select Logs for Analysis - Delete unneeded logs
Widgets	Selection of Widgets for use in run analysis

Log Management

The Log screen allows you to manage your run data and load logs for analysis.

- - Tap the **Logs** button load up to 2 runs to analyze.
- - Select up to 2 runs by tapping to place a checkmark next to the runs you want to review
- - Tap  next to a log to delete that log
- - Tap to clear all checkboxes

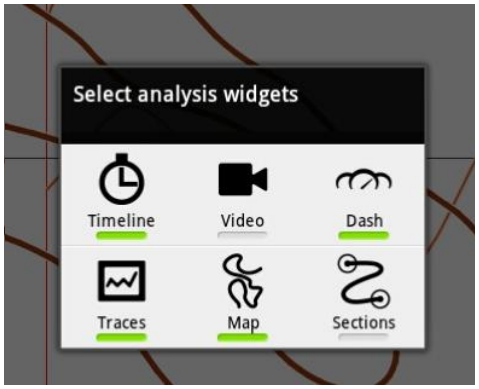
- - Tap 

to delete ALL logs listed in this **Session**
- - once your runs are selected, tap the to return to the Analyze screen

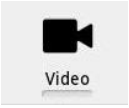
Analysis Widgets

Tap the

Widgets button to bring up the Widget selection menu, this enables you to turn on/off various functions to help you analyze your runs. The green bar below each widget indicates which Widgets have been selected. Press the button when selection is complete.



Widget selection menu

	Enables the time bar at the bottom of the screen that shows the time position of the run. You can still manually navigate the run time even if this bar is not visible. This is helpful to obtain more space for course map, video, traces, etc when reviewing runs on smaller screened devices.
	Enables video playback in the background of the Analyze module. Video navigation will follow normal time navigation.
	Enables the following 'dashboards' that help remind you which colour is which run and includes some basic information such as current speed, time of run and graphical representation of lateral/linear Gs. **Dash**: Darkened, disabled, will not follow time movement, useful for manually

	aligning two runs to a certain point
	Enables the display of any traces that are recorded in the Analyze screen during playback. **Long tap** to select the traces available for display, put check boxes in the traces you wish to display. Press the Back button to return. **Single tap** the trace label you wish to display, the other traces will be hidden. Tap the bar again to restore all selected traces.
	Shows or hides the GPS map and position cursors, providing more room and clearer view of traces and video.
	Enables sectional analysis based. Initial sections are auto-generated by SoloStorm. These sections can be edited. See the **Advanced Analysis Instructions** section for more details.

Markers

Markers are set to help SoloStorm auto-record video and calculate run data more accurately.

Setting Markers

Ensure the logger is on and you are getting GPS signal (Main Logger screen is green)
Physically walk/drive to the Stage/Start/Finish location with your GPS receiver

Tap the button
Markers

Tap the appropriate Set Marker button

a green bar will appear once the marker is set

Staged Marker	This starts video recording when you drive to this marker
Start Marker	Helps to accurately calculate run data in Analysis mode. Does NOT affect logging.
Stop Marker	Helps to accurately calculate run data in Analysis mode. Does NOT affect logging.

Clearing Markers

To clear markers:

Tap the button
Markers

Tap the appropriate Clear Marker button , the green bar will turn off.

Settings

The following are detailed explanation of all entries in the main menu
Settings

GPS

This section allows you to set SoloStorm to use a bluetooth GPS device rather than the on-board GPS. Bluetooth GPS receivers generally provide more GPS data resulting in better run analysis than on-board GPS receivers. Bluetooth GPS receivers can refresh data from 5-10 Hz compared to 1 Hz that most phones and tablets are capable of.

Ensure that you have paired your Bluetooth GPS receiver to your Android device before you start SoloStorm.

- Tap the Settings menu
- Tap the **GPS** button
- To use a Bluetooth GPS device, tap to put a checkmark in the ***Bluetooth*** box
- Tap ***Change Bluetooth GPS*** to select your Bluetooth GPS receiver

GPS health is displayed when the logger is in the ready state. The number of satellites is displayed, and the accuracy of the GPS fix is displayed. The **smaller** the accuracy number, the **better**. *Less than 1.0 is optimal.*

OBD-II

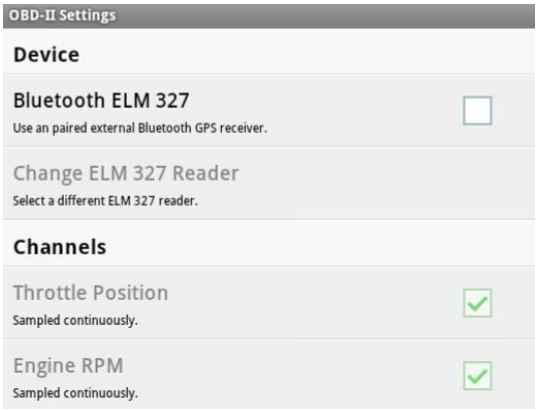
You can pair a Bluetooth OBD-II device to SoloStorm to gather throttle position and engine rpm data for playback and analysis.

Ensure the bluetooth OBD-II device has been paired to your Android device before starting SoloStorm.

- From the main screen, tap ***Bluetooth ELM 327***

Settings **OBD-II**

- If prompted, tap ***Yes*** to allow Bluetooth to be turned on on your device.
- You will be given a list of all available Bluetooth devices. Tap on your Bluetooth GPS device name and address to use it with SoloStorm.



- Tap ***Change ELM 327 Reader*** to select your OBD-II bluetooth device

- Tap to select ***Throttle Position*** and ***Engine RPM*** options to record as appropriate.

NOTE: with both **Throttle Position** and **Engine RPM** options selected, data will be recorded less frequently than if only one option is selected. If accuracy is important then it is recommended to select ONLY the option that is most important to your analysis.

Video

This option allows you to record video via the Android device's on-board camera.

- From the main screen, tap

Settings **Video**

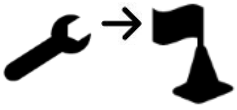
Record Video	Tap to put a checkmark in this box to enable manual video recording from the logging screen. You will need to tap the Start Video box in order to initiate video recording before a run.
Start Recording when Staged	This setting automatically starts video recording once you have reached the **Stage Marker**. You must set a Stage Marker in order for this convenience feature to work. See the **Marker** section for details.
Video Quality	Tap this box to set quality of video to record. Please note that higher quality video will take longer to process and require

	more memory for storage. Please ensure you have enough memory installed to handle this.
Calibrate Video Recorder	This function will help synchronize your video with GPS data. If you do not perform this, there may be a slight time discrepancy between your GPS data and the video playback. You will need two mirrors that you can have face each other in order record video of the device screen. Follow on-screen instructions to complete the sync. If you find calibration does not resolve video synchronization issues, please contact support.
Extract Frames for Jogging	This extracts frames from your video to playback while you are manually manipulating the timeline. If this step is not performed, no video images will display while manually manipulating the timeline.
Jogging Frame Rate	Sets the number of frames per second to display while you are manually manipulating the timeline in analysis mode. Higher frames per second is smoother video closer to the timeline position.

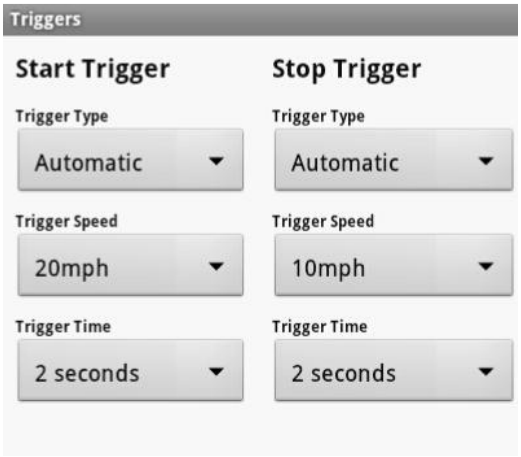
Triggers

Automatic Triggers provide a convenient way to start and stop logging automatically so driver's don't have to worry about setting up equipment when preparing for a run. When Triggers are set to Automatic, SoloStorm automatically starts saving data when the Start Trigger conditions are met and then automatically stops recording once the Stop Trigger conditions are met.
NOTE: when properly paired, SoloStorm continuously buffers GPS and OBD-II data allowing it to record data from the absolute start of your run regardless of your trigger settings, up to a maximum of 10 seconds.

Set Automatic Start/Stop Triggers

- From the main screen tap  **Settings** **Triggers**
- Set **Trigger Type**:
  Automatic: SoloStorm automatically starts/stops recording data once conditions met
  Manual: Driver's must manually initiate/end recording of data
- Set Automatic Trigger Settings
  - SoloStorm's automatic Trigger is turned on by a combination of **Trigger Speed** sustained for a **Trigger Time**
  - E.g. the settings pictured below will start recording when the driver has maintained 20MPH for 2 seconds pr more and will stop recording when speed falls below 10MPH for 2 seconds or more

  NOTE: these trigger settings can be triggered anywhere, and can end up logging a 'run' through grid to stage that happened to meet the start trigger conditions



Log Files

This setting directs SoloStorm where to save your log and video data. Some devices may not have enough memory to handle your video and run data. A high capacity and speed (Class 10 if recording video) SD card should be installed in order to ensure you do not lose data due to lack of memory. Please see your device's user manual for directions on SD card installation.

The following needs to be set once your SD card is installed:

- From the main screen tap **Settings** **Log Files**
- Tap **Log File Location**
- Tap the location you would like to store your SoloStorm data
  NOTE: if you have installed an SD card and can not select **Secondary SD Card** it may be because your device assigns the SD card as Primary Storage. SoloStorm will record data to it appropriately.

Display

These settings control some general display attributes within SoloStorm.

Setting	Options	Details
Units	*Metric* *American*	Measurements in metric (e.g. km/h, meters) Measurements in US (e.g. mph, feet)

Racing Mode	*Solo2* *ProSolo* *Hill Climb*	Regular autocross data is displayed Disables align by start of log due to mirrored courses. Allows for 2 sets of markers due to the dual courses. This enables SoloStorm to record and display elevation GPS data rather than just 2D data
Disable Screen Lock	On/Off	This prevents your android device from automatically locking the screen. Auto-screen lock would prevent SoloStorm from logging data and this option is recommended.
Use Airplane Mode	On/Off	Disables Wi-Fi on your device to lengthen battery life. Bluetooth remains on in this mode.
Voice Notifications	On/Off	Enables voice prompting for major actions such as Start Trigger detected or Stop Trigger detected.
Logger Off on Startup	On/Off	Forces SoloStorm to start with the Logger disabled regardless of last application state on exit.
Sensor-based Landscape	On/Off	If set to ON, SoloStorm will flip the display if the device is mounted upside. The accelerometer needs to be calibrated in this position otherwise will read incorrectly.

Help

This option can either clear or re-enable in-application tips. These tips provide some basic guidance on how to use the SoloStorm interface and will have appeared on your first application start-up. **Clear Tool Tips** will disable the help prompts, while **Reset Tool Tips** will force the tips to appear next time you enter the screens that have the tips incorporated.

License

This setting shows you whether your copy of SoloStorm has been licensed and to what e-mail address. If you have not activated your copy of SoloStorm, it will ask you for the e-mail address you presented when purchasing SoloStorm and the activation code that you received via e-mail. The activation code is not case-sensitive but do include the hyphen “-”.

Device Information

This option provides you information on the version of SoloStorm you have and information about your Android device that may be useful for troubleshooting.

Advanced Logger Instructions

This section covers details that have not been previously covered. Many of these are tools that can help you fine-tune your ability to the logging of your runs.

Accelerometer

- Basic calibration is covered in the Quick Reference Guide
- **LONG TAP** the g-meter to adjust the following settings
  - Accelerometer Range
    - This adjusts the maximum displayed range of the G-meter from 1 - 4 G
    - Lateral G's are left-right forces
    - Linear G's are forward-backward forces

Satellite readings

There are a few lines of satellite specific data that displays while the Logger is on and awaiting a run start. This information is more for reference.

Satellite count: more is better
Accuracy in Meters: less than 1.0 is good, you may want to adjust the position of your GPS to ensure it has the best clear view of the sky to increase accuracy.

Advanced Analysis Instructions

This section contains details about functions in the Analysis mode that have not been previously covered. These tools will help you fine-tune your ability to analyze your runs, leading to more valuable review.

Math Channel Options

These settings can help make Analysis more accurate.
Access these settings from the **Main Screen Menu Bar | Settings | Analysis**

Align Logs	This lines up two logs in the Analysis screen based on the start of movement in each log correct for any GPS drift that may have occurred between runs.
Section Data Channel	Determines how SoloStorm auto-calculates section markers in Analysis Mode. **Horizontal Accelerometer** is recommended. **Calculated Turn Radius** can be selected but noisy data can lower the quality of this option.

Traces

The analysis screen can show a graphical representation for a number of data points recorded.

Trace Selection & Display

LONG TAP the Trace label bar to bring up all Traces available for display.
Single TAP a label on the Trace label bar to display a single specific trace. Single tap again to return bar to multiple trace mode.

How to read Traces

The thin vertical red line is the current position in both horizontally displayed traces. The horizontal black line is "ZERO".

Traces are filtered values to smooth out extreme data values that may skew interpretation.

Available Traces

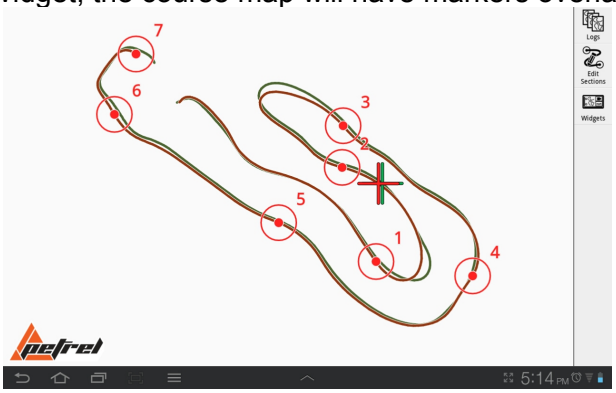
Trace	**RAW data available?**	**Description**
Speed		Ground speed as recorded from GPS
Engine RPM	Yes	Engine RPM data recorded from OBD-II device. Filtered values smooth out and data spikes that may skew data.
Throttle Position	Yes	Throttle position recorded from OBD-II device.
Time Delta		Time difference between two logs. The horizontal orange line indicates the orange log. The green line indicates relative position. Below the orange line means the green run is faster (less time) than the orange run, above line orange line means slower (more time) than the orange run. This trace recalculates if you re-align the runs part way through the run.
Lateral Acceleration	Yes	Left-right g-forces as recorded from on-board g-sensor. Above the line are right turn and below the line are left turn g-forces.
Longitudinal Acceleration	Yes	Acceleration/deceleration g-forces as recorded from on-board g-sensor. Above the line are acceleration forces, below the line are deceleration forces.
Vertical Acceleration	Yes	Ascent/descent g-forces as recorded from on-board g-sensor
Combined Acceleration		Sum total of filtered Lateral and Longitudinal g-forces experienced. Vertical Acceleration not included.
Distance Travelled		Cumulative distance travelled. Set Start and Stop Markers for accurate analysis.

Turn Radius	Yes	Turn radius based on calculations on GPS data.
Data Point Count		GPS data point number of log data used to mark/calculate current location data.

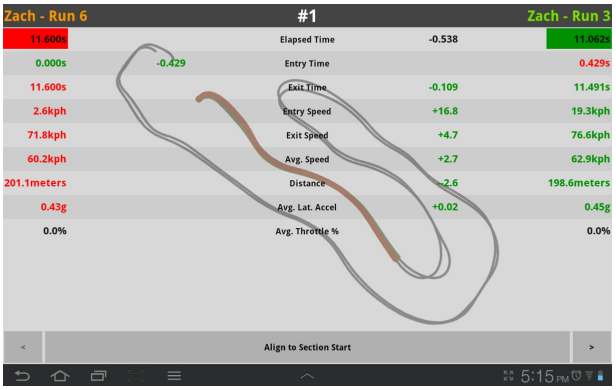
Section Analysis

Solostorm provides a quick and easy way to split and compare runs into sections.

- Enable the Section Widget, the course map will have markers overlaid on it



- Tap any one of the numbered circular section markers on the course map to see detailed data pertaining to that section, the relevant section of the course is bolded in the background



The bottom of this screen contains a **Align to Section Start** button that automatically brings both position cursors to the start of the section for convenience of playing back the section manually.
The far left and right corners have navigation buttons that allow you to move to the next section.

Section Data

Section data display is split into 5 columns.
Measured data from Run A & B are in the far left and right columns.
Data labels are in the middle column.
Data coloured **GREEN** is 'ahead' of the other run while data coloured **RED** is 'behind' the other run
Column 2 and 4 display the difference between the two runs and will be displayed closer to the run which 'won' that category
The table below explains the various data labels:

Elapsed Time	Time it took for each run to complete this section. Green highlight indicates faster run and difference.
Entry Time	Time that each driver arrived at the start of the section during their own run. The difference shown here indicates which driver arrived at the start of this section first based on relative time.
Exit Time	Time that each driver exited the section during their run. The difference here indicates which driver exited first based on relative time.
Entry Speed	Entrance speed into the section and difference.
Exit Speed	Speed exiting section and difference.
Average Speed	Average speed over the section and difference.
Distance	Distance travelled in the section and difference
Average Lateral Acceleration	Average lateral g-forces while travelling section
Average Throttle %	Average throttle position while travelling section

Edit Sections

Tapping the Edit Sections button will change the right menu bar to the following section functions. To exit these functions, press the Android Back button.

 Load Sections	This loads previously saves section markers for use on the currently loaded runs. Tap the **Load Sections** button Tap Session Field to select the appropriate session Tap the Section Marker filename to load those markers
 Split Section	Drag the position cursor to where you would like to set a new section marker, tap the **Split Section** button, a new marker will be set at your current position and all sections will be renumbered accordingly. If you have two runs loaded, the section marker will be set by the RED run even if the run is disabled.
 Merge Sections	To delete a section marker: Position your cursor behind (time-wise) the section marker you wish to delete Press the **Merge Section** button, the section marker will be deleted

 Save Sections	This saves your current section markers for overlaying on other run logs. Tap the **Save Sections** button once you have completed setting your section markers Type the name of the section markers Tap **Save** The section markers will be saved under the Session the log was created under when you load them

Video Options

Touch the **Widgets** button, activate the **Video** widget. Your video will appear on the Anlaysis screen.

Touch on a video image to show the Video Options Dialog for the selected log. From here, you can:

Share

This button shares either your raw OR overlaid overlaid video. A dialog will appear that allows you to select from a list of applications on your device that will handle the sharing of video.

Play

Tap this button to play either the raw video OR the video that has been overlaid with SoloStorm telemetry.

Video Jogging

To help you find specific spots in your run, video jogging can show you snapshots of your video while you manually adjust the run timeline.

If you do not have automatic extraction of video frames turned on in the Video Settings, or you have changed the jogging frame rate, then tap the video box in the Analysis screen, then tap the **Extract Frames** button.

Once complete, you will see video ‘update’ while you adjust the run timeline.

Overlay Video

This overlays SoloStorm run data onto your recorded video creating one video with all telemetry included much like those seen on TV.

NOTE: depending on your device and video quality recorded, this process may take some time. You can continue with other functions while this process runs in the background.

This video can then be shared.